

**Text S1.** The data source of distribution information for *Gymnocypris chilianensis* and *Triplophysa hsutschouensis* in the Hexi River system, the Qinghai–Tibetan Plateau.

#### Reference

##### A. *Gymnocypris chilianensis*

###### (a) Journal articles

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B. *Triplophysa hsutschouensis*

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(b) Theses

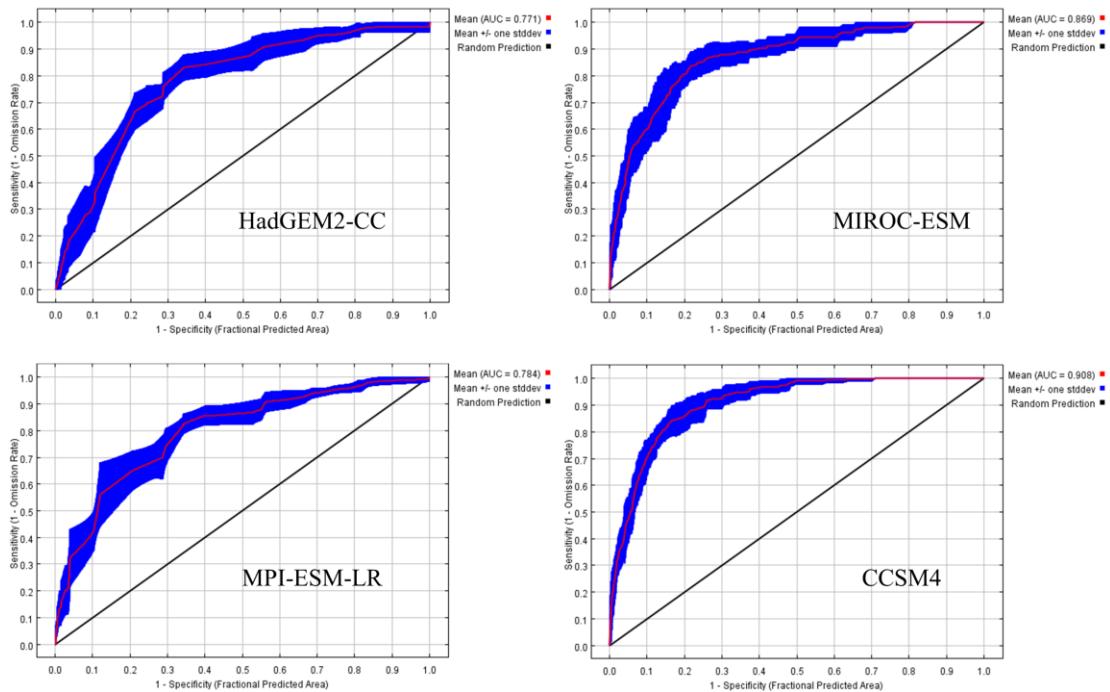
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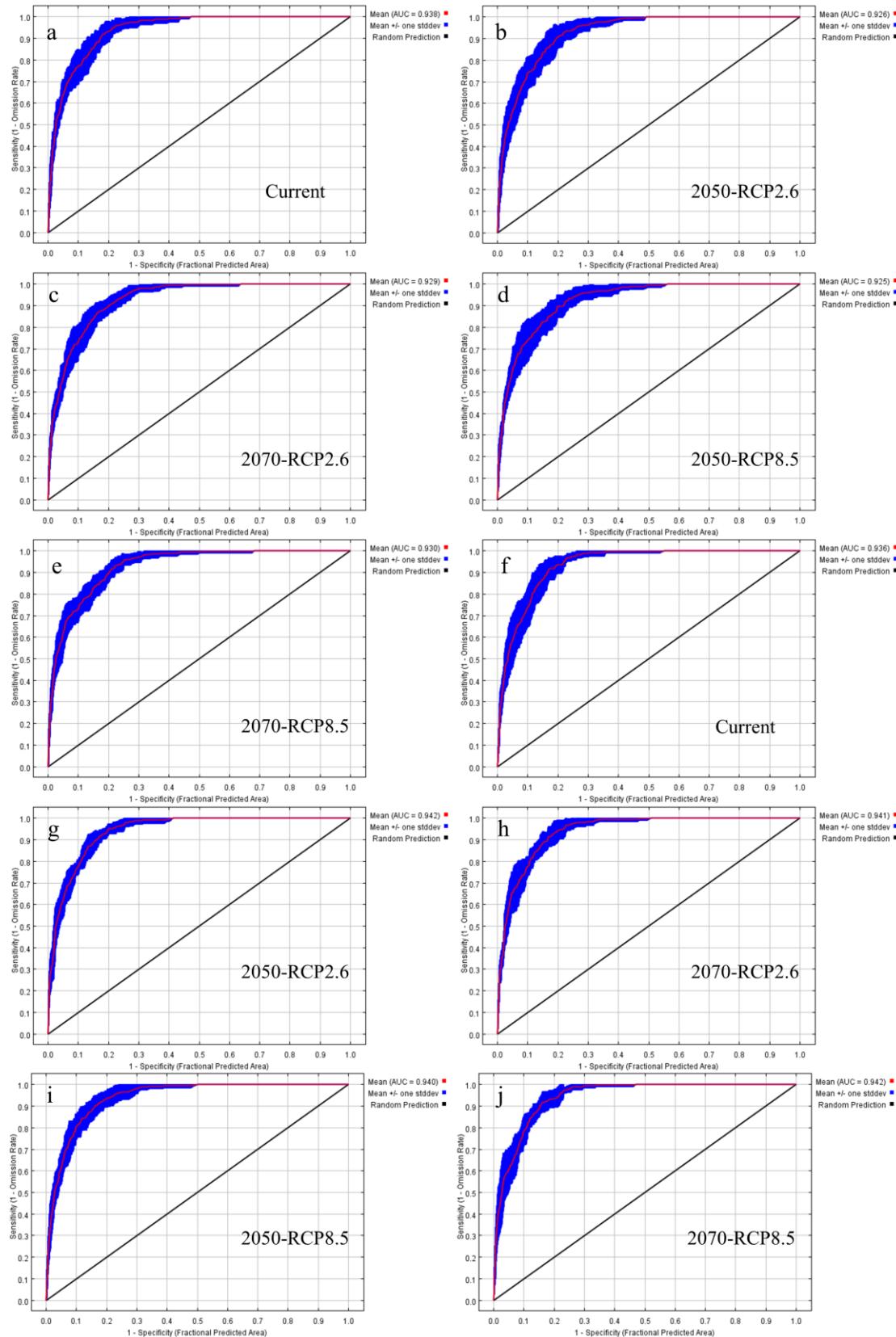
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(d) Databases

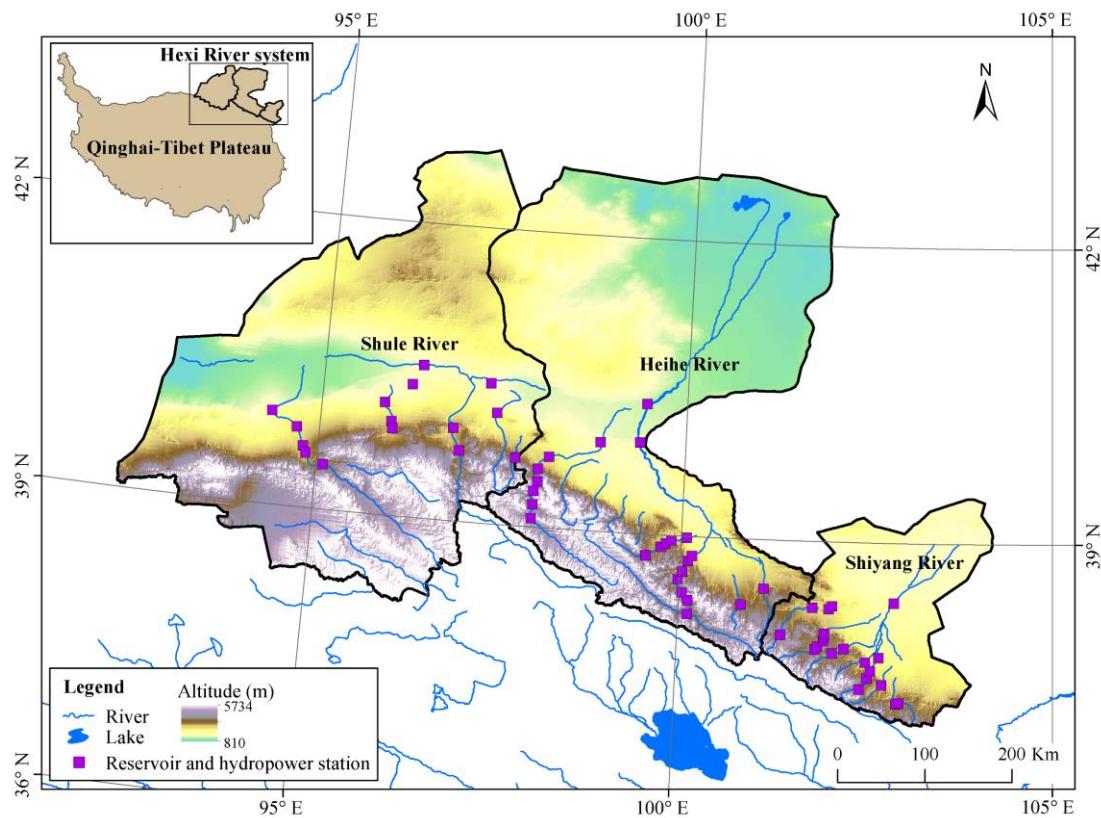
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**Figure S1.** Receiver operating characteristic (ROC) curve verification of distribution of *Gymnocypris chilianensis* based on four Global Circulation Models (GCMs; HadGEM2-CC, MPI-ESM-LR, MIROC-ESM and CCSM4). The red (training) line shows the “fit” of the model to the training data. The blue (testing) line indicates the fit of the model to the testing data and is the real test of the model’s predictive power.



**Figure S2.** Receiver operating characteristic (ROC) curve verification of distribution of *Gymnocypris chilianensis* (a–e) and *Triplophysa hsutschouensis* (f–j) under different climate scenarios predicted by the Maxent model.



**Figure S3.** Reservoir group (reservoir and hydropower station) in the Hexi River system. Data were obtained through surveys and visits to water authorities.